

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54450 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Aug 17 2012

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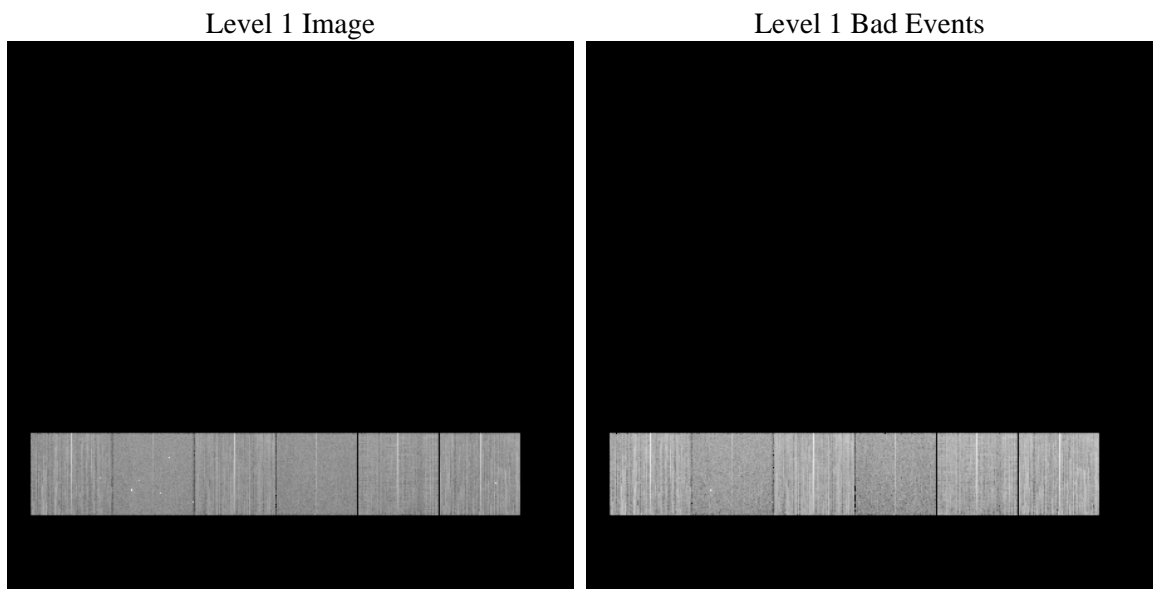
# 1 Front

seq_num	&#160	Sequence number
obs_id	54450	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	310.6035315963	Nominal RA [deg]
dec_nom	-30.815278077822	Nominal Dec [deg]
roll_nom	57.046658748545	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8134.3999697566	Sum of GTIs [s]
livetime	8031.3972993919	Livetime [s]
ontime4	8134.3999697566	Sum of GTIs [s]
ontime5	8134.3999697566	Sum of GTIs [s]
ontime6	8134.3999697566	Sum of GTIs [s]
ontime7	8134.3999697566	Sum of GTIs [s]
ontime8	8134.3999697566	Sum of GTIs [s]
ontime9	8134.3999697566	Sum of GTIs [s]
l2events	272353	Number of level 2 events

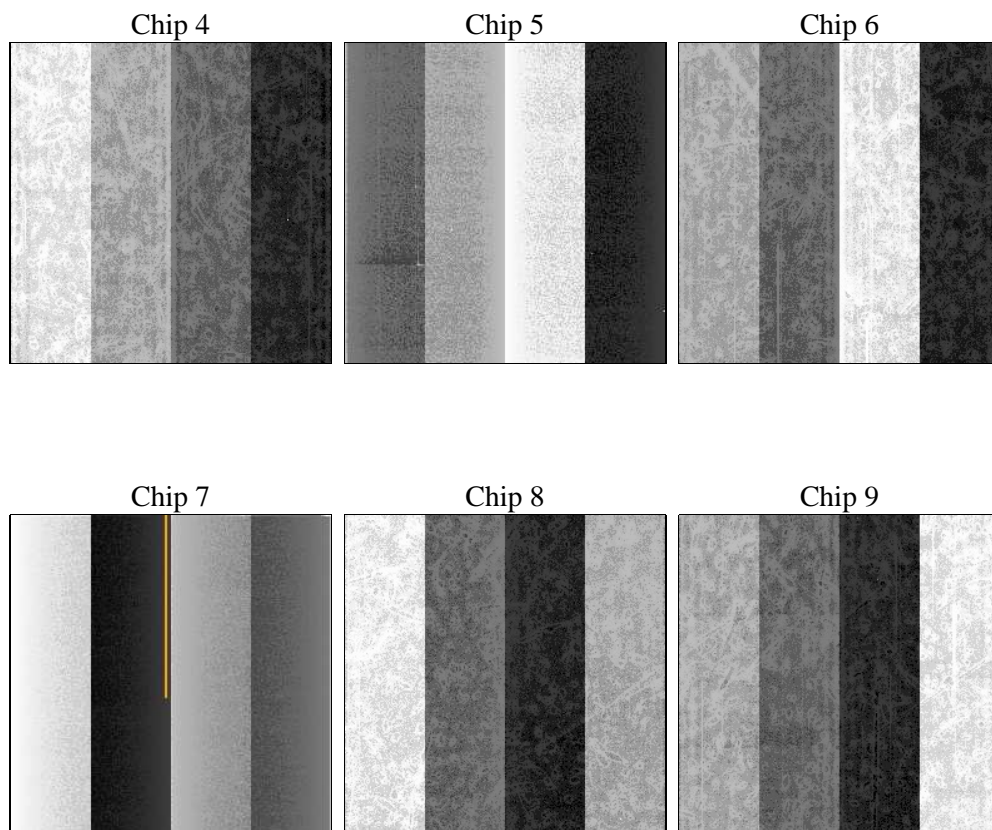
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8134.3999697566	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime4	8134.3999697566	Sum of GTIs [s]
date	2012-08-17T15:44:24	Date and time of file creation	ontime5	8134.3999697566	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8134.3999697566	Sum of GTIs [s]
			ontime7	8134.3999697566	Sum of GTIs [s]
			ontime8	8134.3999697566	Sum of GTIs [s]
			ontime9	8134.3999697566	Sum of GTIs [s]
			l1events	964981	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	162725	145955	172408	133944	168862	181087	grade 0 events	21414	10023	20465	10393	23251	20192
rejected events	124135	75808	132552	69489	120136	140668		13%	6%	11%	7%	13%	11%
rejected %	76%	51%	76%	51%	71%	77%	grade 1 events	137	247	108	82	123	123
								0%	0%	0%	0%	0%	0%
							grade 2 events	7238	26108	8168	16044	9907	9216
								4%	17%	4%	11%	5%	5%
							grade 3 events	2762	2605	2619	5488	3899	2673
								1%	1%	1%	4%	2%	1%
							grade 4 events	2651	2466	2662	5540	3665	2635
								1%	1%	1%	4%	2%	1%
							grade 5 events	3165	6341	3210	7674	4182	3677
								1%	4%	1%	5%	2%	2%
							grade 6 events	5251	30192	6719	28237	8988	6492
								3%	20%	3%	21%	5%	3%
							grade 7 events	120107	67973	128457	60486	114847	136079
								73%	46%	74%	45%	68%	75%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	310.603531596296
[deg] Pointing Dec	0	-30.81527807782211
[deg] Pointing Roll	0.0	57.04665874854481
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	459908007.505477	459908007.505477
Observation start date	2012-07-29T00:13:28	2012-07-29T00:13:27
[s] Observation end time (MET)	459917555.512587	459917555.512587
Observation end date	2012-07-29T02:52:36	2012-07-29T02:52:35
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1343999697566

### A.2 Comments